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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/750,333	12/31/2003	Hsi-Chih Peng	3304.2.106	4682	
21552	7590 02/07/2005	EXAMINER		INER	
	MADSON & METCALF			TANG, MINH NHUT	
GATEWAY SUITE 900	GATEWAY TOWER WEST SUITE 900			PAPER NUMBER	
15 WEST SO	OUTH TEMPLE	2829			
SALT LAKE CITY, UT 84101			DATE MAIL ED: 02/07/2004	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/750,333	PENG, HSI-CHIH			
Office Action Summary	Examiner	Art Unit			
	Minh N. Tang	2829			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tim ly within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 1) ⊠ Responsive to communication(s) filed on 31 L 2a) ☐ This action is FINAL. 2b) ☐ This 3) ⊠ Since this application is in condition for alloware closed in accordance with the practice under the condition of the cond	s action is non-final. ince except for formal matters, pro				
Disposition of Claims					
Claim(s) 1-23 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 1-9,11,13 and 15-23 is/are allowed. Claim(s) is/are rejected. Claim(s) 10,12 and 14 is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) ☐ The specification is objected to by the Examina 10) ☑ The drawing(s) filed on 31 December 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to be the correct to be the Examination is objected to by the Examination is objected to be a considered to be added to the Examination is objected to be a considered to be a considered to be a considered to be added to be a considered to be a c	are: a) \square accepted or b) \boxtimes object a drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, "a slew-rate adjusting element electrically connected to said test signal generator and said discriminator" (claim 16) and "said slew-rate adjusting element is incorporated into said output buffer" (claim 17) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New

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Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

3. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

4. Claims 10, 12 and 14 are objected to because of the following informalities:

a/ in claim 10, line 7, "tome" should be -- time --.

b/ in claim 12, since there is insufficient antecedent basis for the limitations "said first constant level" (line 3) and "said second constant level" (line 5) in the claim, therefore "said first constant level", and "said second constant level" should be -- a first constant level of said first reference signal --, and -- a second constant level of said second reference signal --, respectively.

c/ in claim 14, line 12, "accumulatively counted value" should be -- said first accumulatively counted value --.

Appropriate correction is required.

Conclusion

5. This application is in condition for allowance except for the following formal matters: the objections to the drawings and the claims set forth above.

Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

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A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

6. The following is a statement of reasons for the indication of allowable subject matter:

Claims 1-9 recite, inter alia, a method for checking signal transmission quality of a circuit board, comprising steps of comparing said test signal with a first reference signal at a plurality of time points to obtain a plurality of comparison results; and determining the signal transmission quality of said circuit board according to said plurality of comparison results.

Claims 10-13 recite, inter alia, a method for checking signal transmission quality of a circuit board, comprising steps of comparing said test signal with a first reference signal at a plurality of time points, and accumulatively counting to obtain a first counted value whenever the comparison result complies with a first predetermined result; and determining the signal transmission quality of said circuit board according to said first counted value.

Claims 14-23 recite, inter alia, a device for checking signal transmission quality of a circuit board, said circuit board communicating a source device and a destination device via a trace, and said device for checking signal transmission quality being arranged in said source device and comprising a first counter electrically connected to said first comparator, and counting in response to said first counting signal to generate a first accumulatively counted value; and a discriminator determining the signal transmission quality of said circuit board according to accumulatively counted value.

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The art of record does not disclose the above limitations, nor would it be obvious to modify the art of record so as to include the above limitations.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Chakraborty	6,124,715	Testing Of Live Circuit Boards.
Intrater	5,818,251	Apparatus And Method For Testing The Connections
		Between An Integrated Circuit And A Printed Circuit Board
Michael	5,815,001	Integrated Circuit Board With Built-In Terminal Connection
		Testing Circuitry.
Lu et al.	5,659,257	Method And Circuit Structure For Measuring And Testing
		Discrete Components On Mixed-Signal Circuit Boards.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh N. Tang whose telephone number is (571) 272-1971. The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramirez can be reached on (571) 272-2034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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MINH NHUT TANG PRIMARY EXAMINER

02/03/05